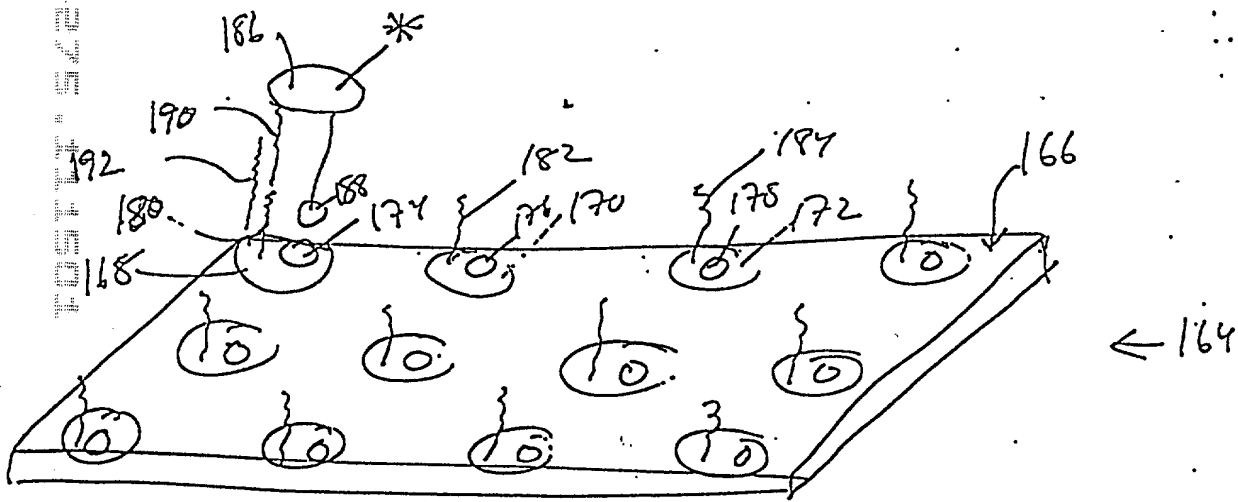


FIG. 1



~~FIG. 47~~

FIG. 2

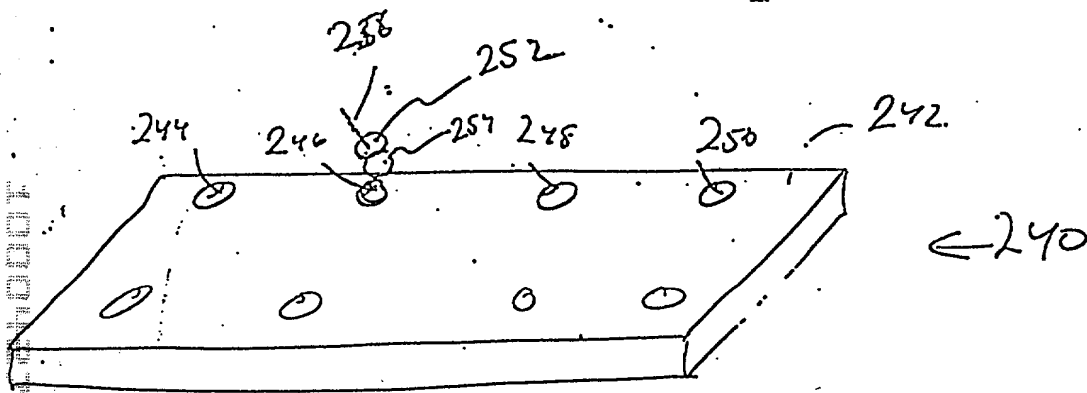


FIG 33

FIG. 3

Add Complementary DNA to "DNA priming region"
+ sequence using standard PCR methods:

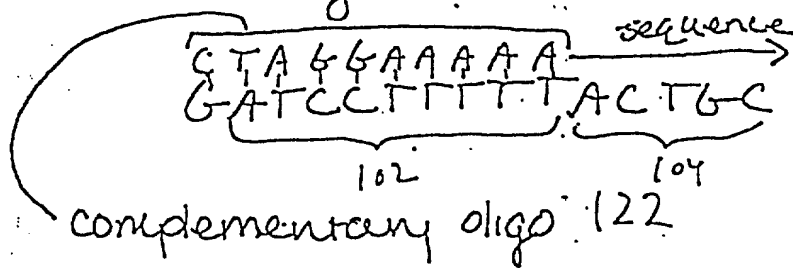


Fig. 38
5

Match up resulting sequence data with
records kept that connect protein
identity to sequence:

ACTGC = protein # 120
(species)
104

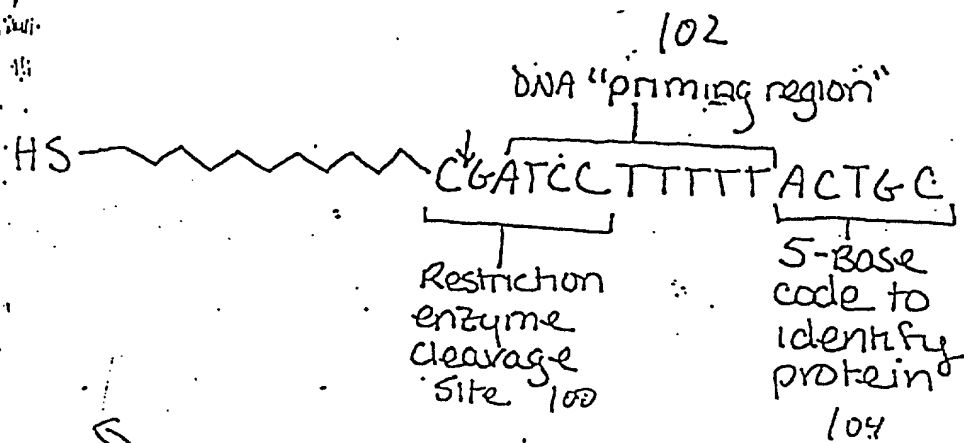


Fig. 34

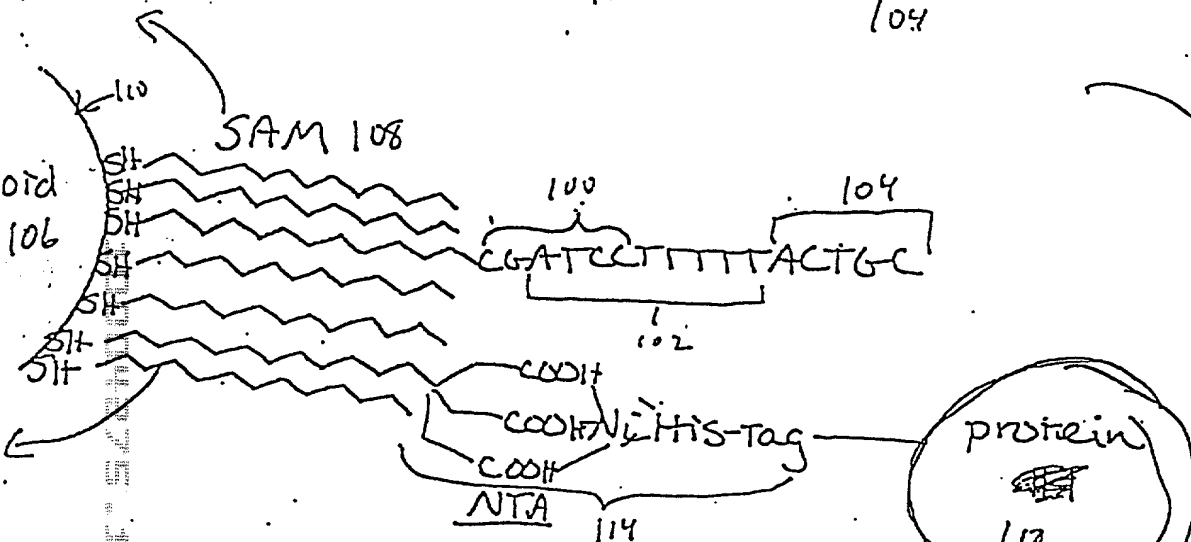
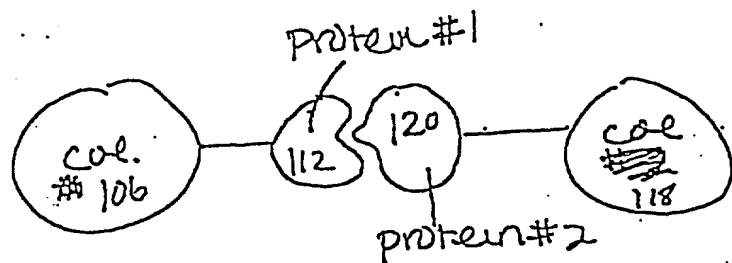


Fig. 35
Fig. 6

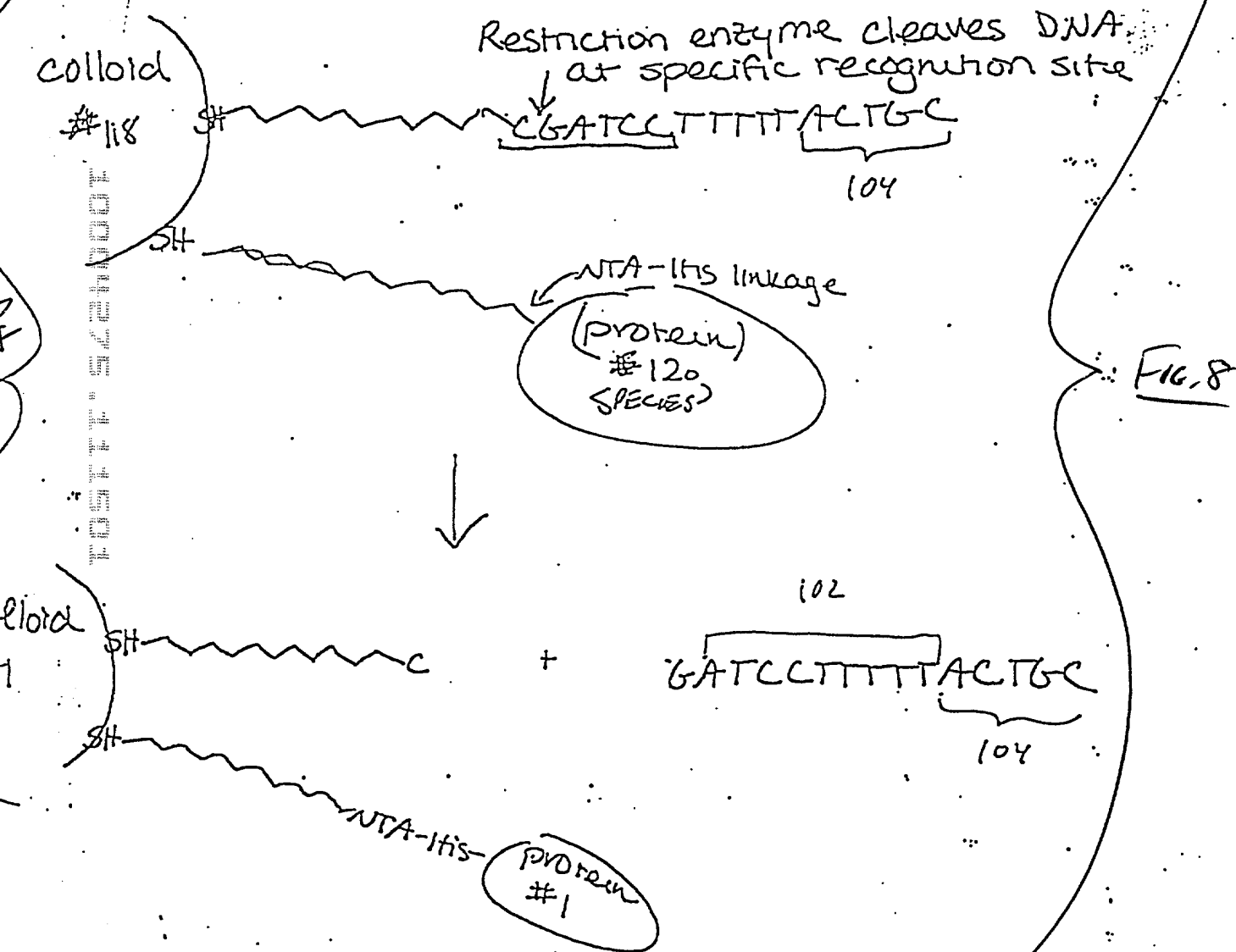
Oligo-thiol is incorporated into SAM along with NTA on colloid. His-tagged protein is attached to colloid via NTA-Ni.



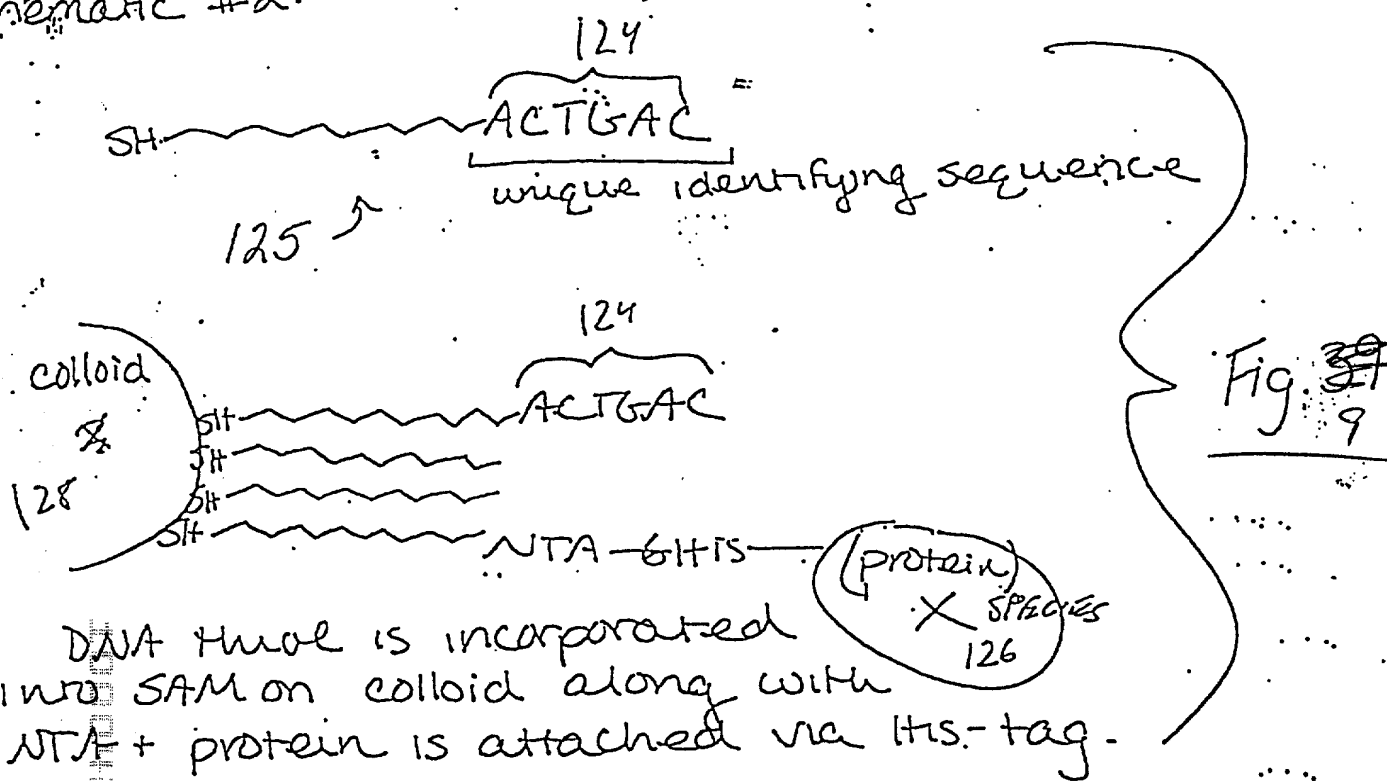
protein, bound to colloid is allowed to participate in binding assays.

Fig. 36 7.

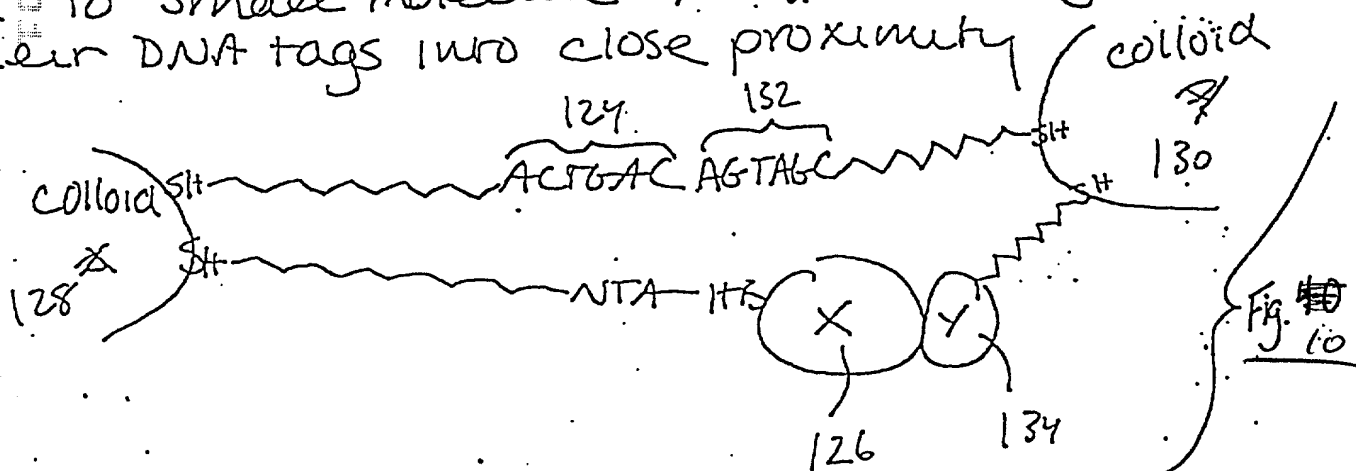
To uncover the identity of protein after the assays are completed, cleave the DNA portion of the DNA-thiol by addition of a restriction enzyme:



Schematic #2:

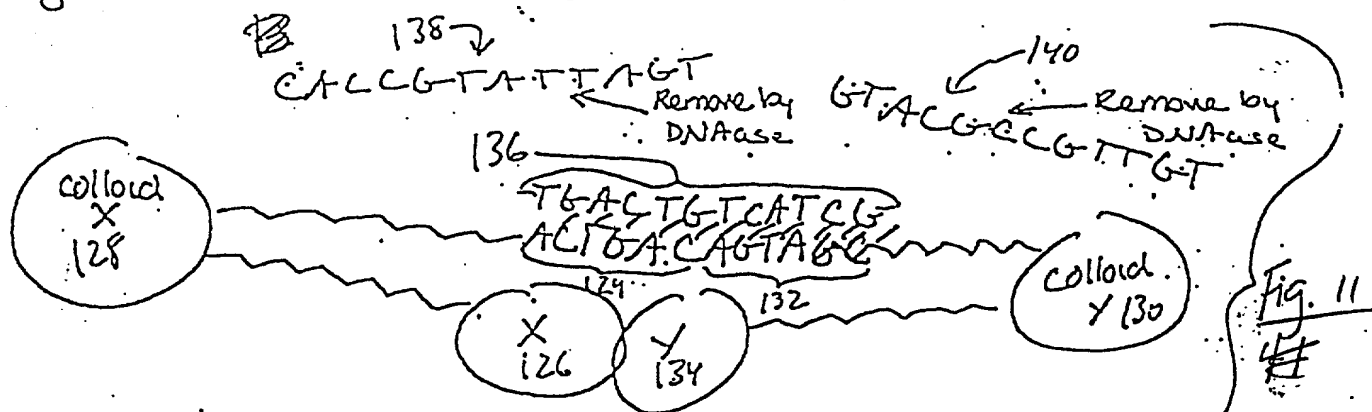


colloids bearing proteins or small molecules are allowed to interact. Binding of protein X to small molecule Y ~~allows~~ brings their DNA tags into close proximity

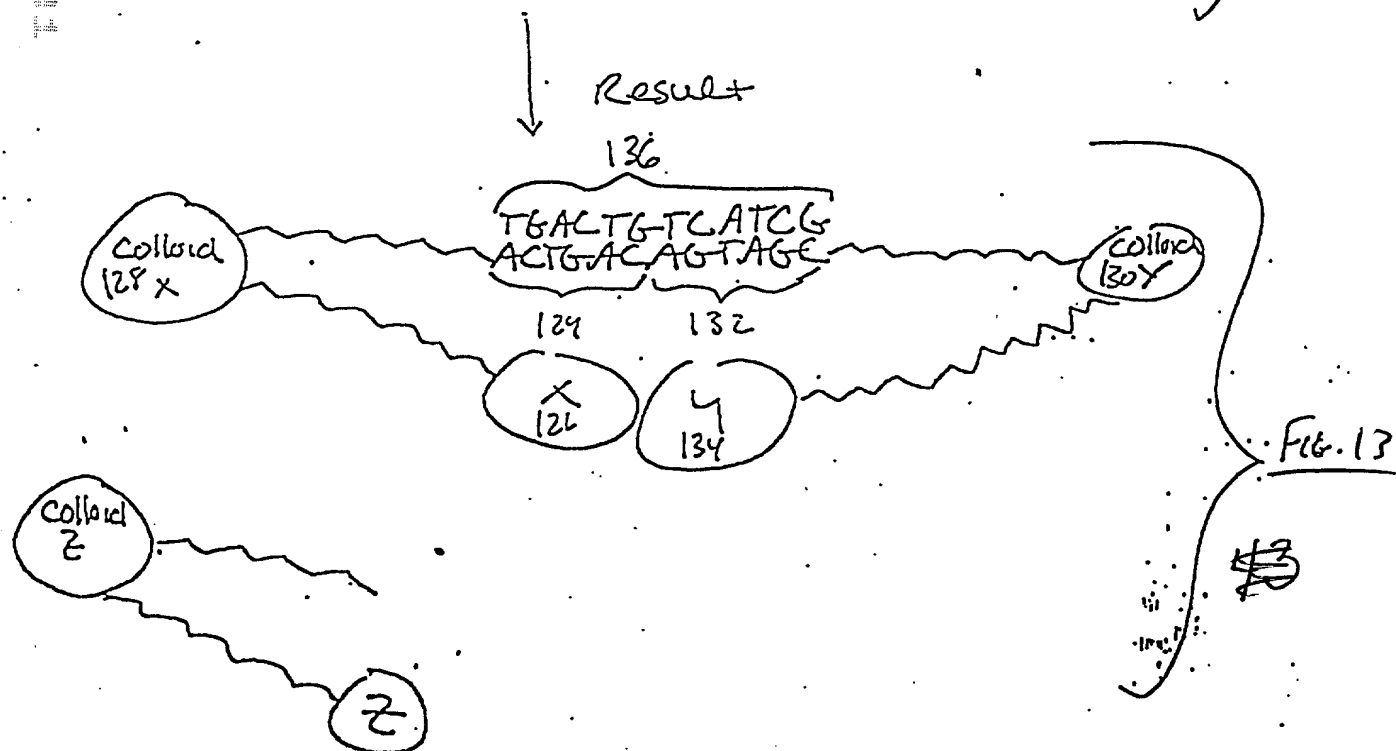


Complementary sequences to ~~function~~ DNA tags are added + allowed to bind.

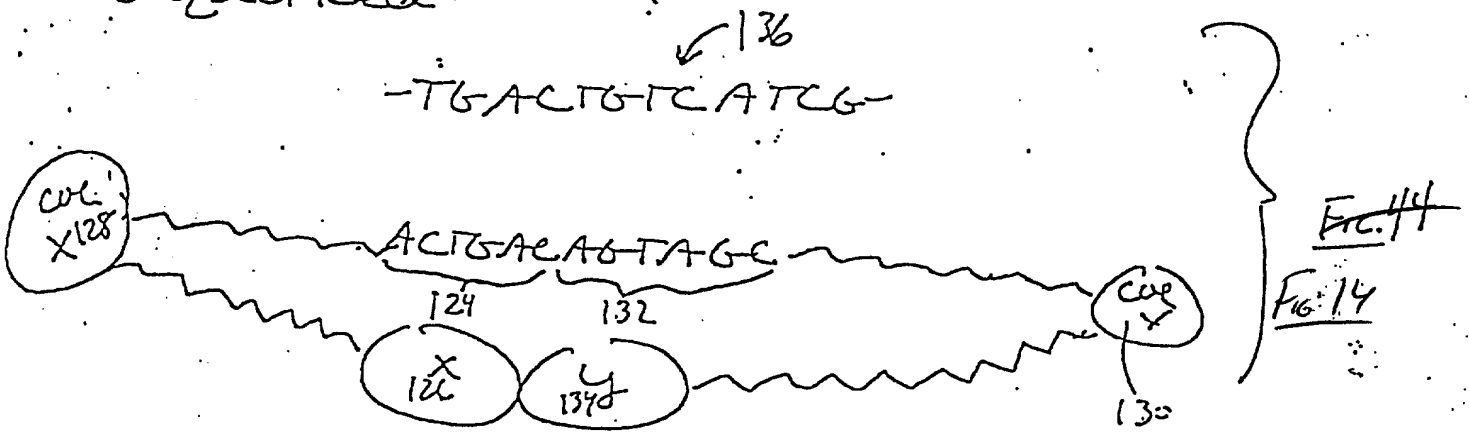
lig. ~~ident~~



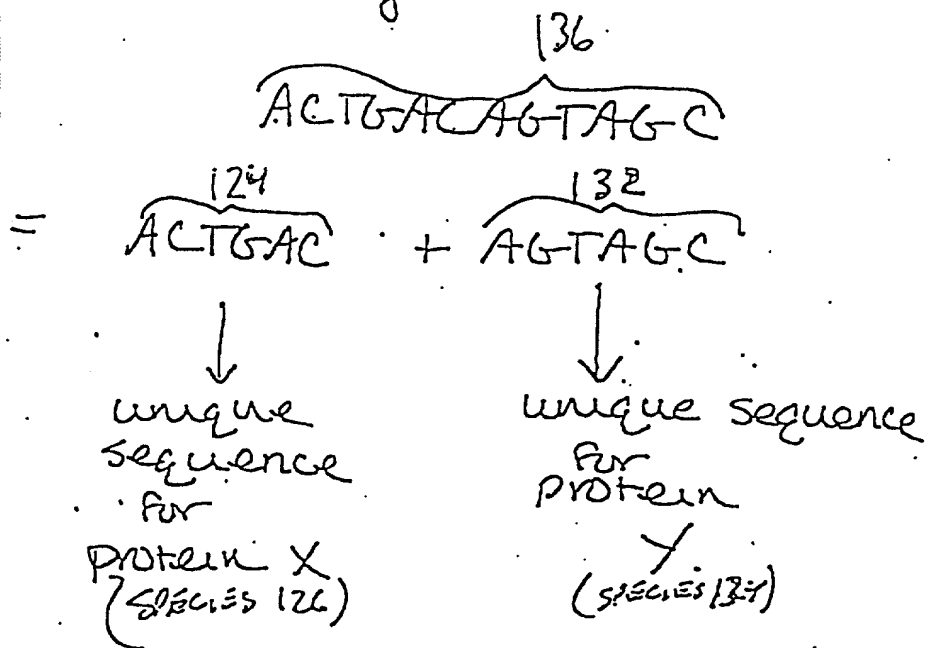
Single-stranded DNAase is added to remove (or "chew up" any ~~st~~ non-hybridized DNA.



Complementary DNA is denatured and sequenced.



Resulting sequence contains the unique DNA codes of the two binding partners, $X + Y$:



Protein X + Protein Y must be binding partners.

Tech: ACV
File: negconbb.bin

Init E (V) = 0
Final E (V) = 0.8
Incr E (V) = 0.008
Amplitude (V) = 0.025
Frequency (Hz) = 10
Sample Period (s) = 1
Quiet Time (s) = 2
Sensitivity (A/V) = 1e-5

◆ negconbb.bin
— posconb.bin

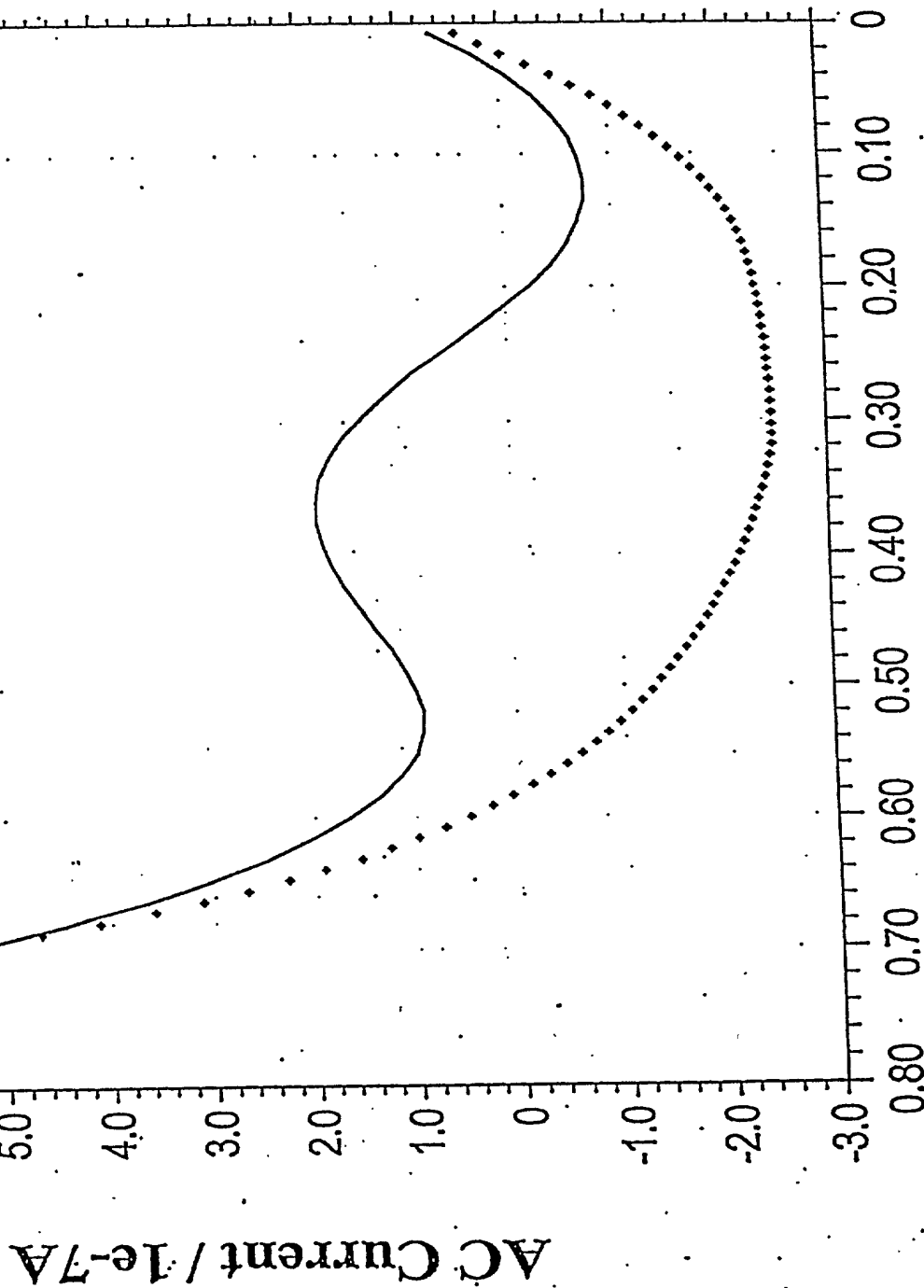


FIG. 16

Potential / V

~~Fig. 16~~
~~Fig. 16~~

File: sb062_007bb

Init E (V) = 0.1
Final E (V) = 0.7
Incr E (V) = 0.008
Amplitude (V) = 0.025
Frequency (Hz) = 10
Sample Period (s) = 1
Quiet Time (s) = 2
Sensitivity (A/V) = 5e-4
— sb062_007bb
○ sb062_012bb.bin

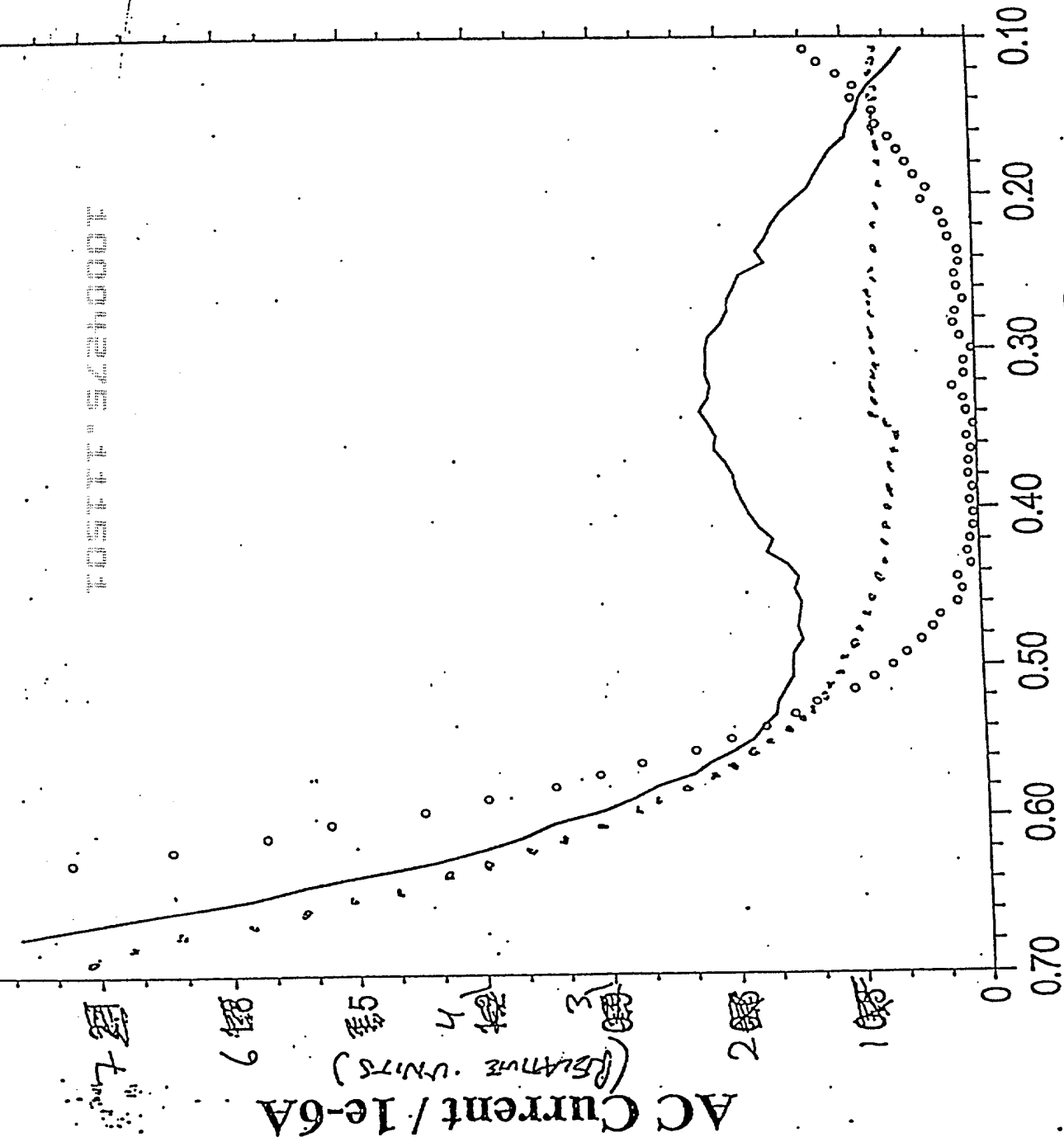


Fig. 17
Potential / V
~~Fig. 18~~
~~Fig. 19~~

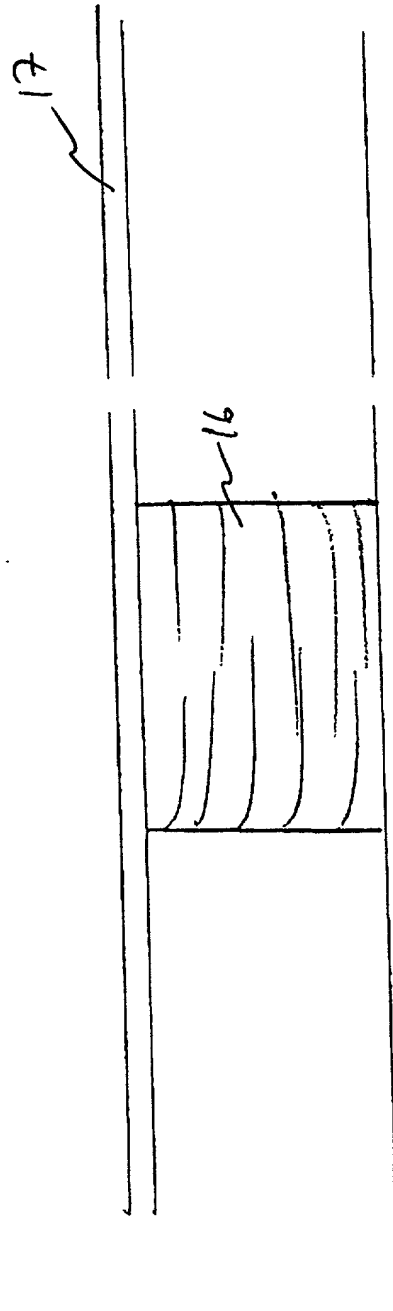
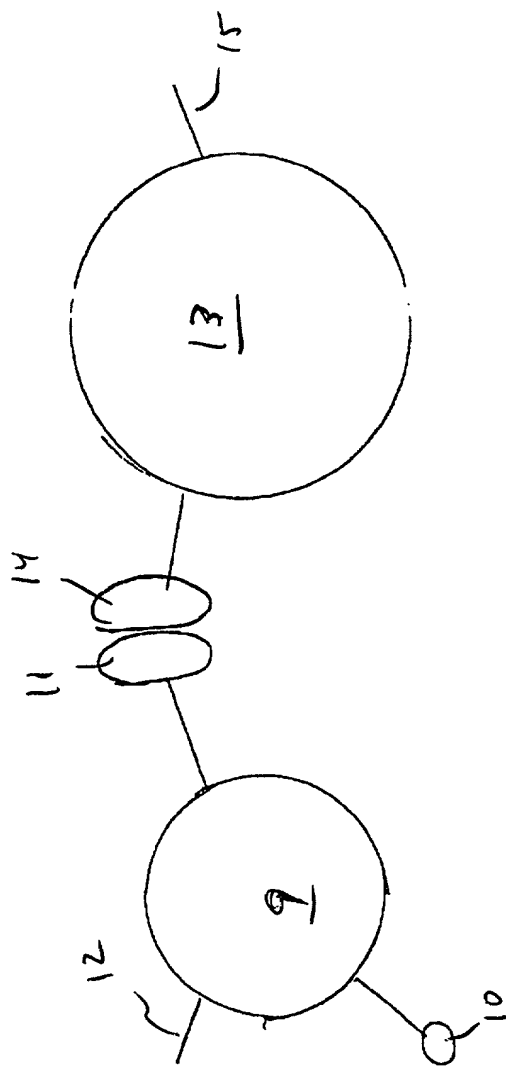
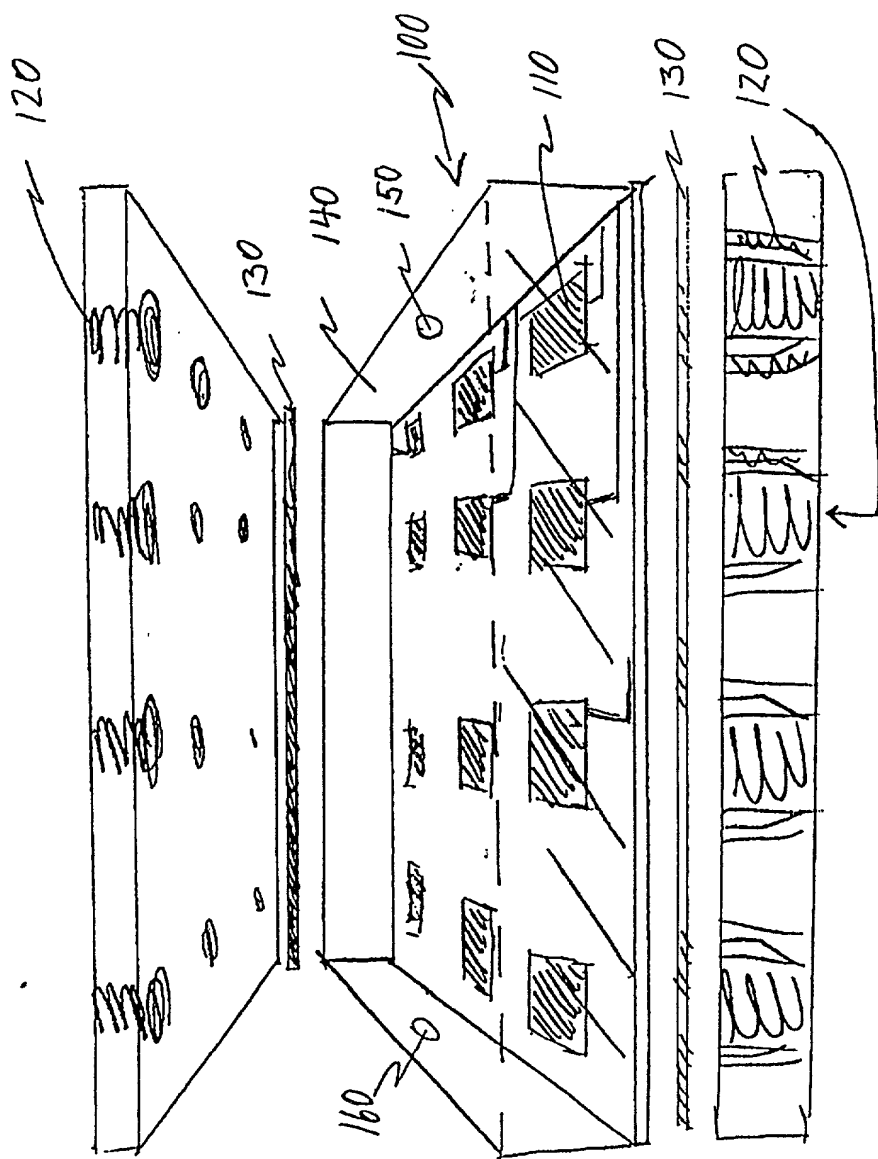


FIG. 18



~~Fig. 60-20~~

Fig. 19